

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
July 11	Roswell, N. M.	NASA	J. Raper (NASA)	AFCRL	0.350 million; 0.50 m 34.61 million; 0.33 m scrim
July 12	Chico MAP, California	AFCRL	Major Burnett (AFCRL)	AFCRL	0.803 million; 2.0 mi
July 26	Palestine, Texas	ONR	Dr. T. J. Pepin (Univ. of Wyoming)	NCAR	0.071 million; .5 mil
July 26	Roswell, N. M.	NASA	J. Raper (NASA)	AFCRL	0.356 million; 0.50 m 34.640 million; 0.33 m scrim
July 26	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.290 million; 1.5 mi
July 28	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.450 million; 1.0 mil Stratofilm "R"
August 1	Palestine, Texas	Univ. of Liege	Dr. R.J. Zander (Univ. of Liege)	NCAR	2.900 million; 1.5 mil 500 lb. load tapes
August 5	Palestine, Texas	NSF	Dr. Allen Zych (Case Western Reserve Univ.)	NCAR	11.62 million; .7 mil; 1.2 mil cap; 300 lb. load tapes
August 8	Mildura, Victoria, Australia	AEC	AEC	B.L.S., Mildura (1)	0.450 million; 1.0 mil Stratofilm
August 10	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
	(1) Balloon Launching Station, Mildura, Victoria, Australia				
	(2) 2,000 ft (AGL)				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
4.8	3.0	5865.0	Viking parachute test	Tandem Balloon System
18.6	2.0	639.0	Transponder test	Successful flight
11.0	7.0	25.5	Global monitoring of the stratosphere project; H ₂ O vapor measurements	Successful flight
4.45	3.0	5422.0	Viking parachute test	Tandem Balloon System
44.4	4.5	741.0	A.E.C. sampling, piggy-back CSIRO-Sydney-photographing upper atmosphere dust particles	Successful flight
17.3	6.5	555.0	A.E.C. sampling, piggy-back CSIRO-Sydney-photographing upper atmosphere dust particles	Successful flight
17.0	8.6	3029.0	High resolution spectral observations of the sun in near infrared	Successful flight
5.1	13.35	2906.0	Observation of high energy neutrons that originate in the atmosphere or may be produced at the sun	Successful flight
27.6	6.25	759.0	A.E.C. sampling, piggy-back CSIRO-Sydney-photographing high altitude dust samples	Successful flight
(2)	5.0	773.0	Navigational satellite experiment	Tethered system

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August 11	Palestine, Texas	Univ. of Liege	Dr. R.J. Zander (Univ. of Liege)	NCAR	2.900 million; 1.5 mil; 500 lb. load tapes
August 11	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 12	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 13	Roswell, N. M.	NASA	J. Raper (NASA)	AFCRL	0.356 million; 0.50 mil; 34.60 million; 0.33 mil; scrim
August 16	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 17	Palestine, Texas	NCAR	NCAR	NCAR	0.125 million; 2.0 mil
August 17	Palestine, Texas	NCAR	NCAR	NCAR	3.500 million; .75 mil; 250 lb. load tapes
August 17	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 18	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 19	Roswell, N. M.	NASA	J. Raper (NASA)	AFCRL	0.158 million; 0.50 mil; 4.200 million; 0.33 mil; scrim
	(1) 5,000 ft (AGL) (2) 1,000 ft (AGL) (3) 5,000 ft (AGL) (4) 1,000 ft (AGL) (5) 5,000 ft (AGL)				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
17.0	10.1	3005.0	High resolution spectral observations of the sun in near infrared	Successful flight
(1)	9.0	773.0	Navigational satellite experiment	Tethered system
(2)	1.0	773.0	Navigational satellite experiment	Tethered system
4.67	3.0	5947.0	Viking parachute test	Tandem balloon system
(3)	9.0	773.0	Navigational satellite experiment	Tethered system
--	--	152.0	Test of launch technique for Southern Hemisphere superpressure flight program	Successful flight
--	--	440.0	Test of a packed parachute attached to the apex of balloon for slowing balloon descent rate after termination	Successful flight
(4)	6.0	777.0	Navigational satellite experiment	Tethered system
(5)	5.0	773.0	Navigational satellite experiment	Tethered system
18.4	5.0	3425.0	Viking parachute test	Tandem balloon system

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
August 23	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 24	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 24	Mildura, Victoria, Australia	AEC/ Melb. Univ.	RAAF Physics Department Melbourne Univ. Australia	B.L.S., Mildura (3)	0.120 million; 1.5 mil
August 25	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
August 28	Palestine, Texas	S.R.C. England (5)	Dr. R. Jennings (Univ. College London)	NCAR	3.100 million; 1.2 mil; 300 lb. load tapes
August 29	Palestine, Texas	NASA/ GSFC	Axel Briskin/ Dr. E. Boldt (Goddard Space Flight Center)	NCAR	10.58 million; .5 mil; .7 mil cap; 300 lb. load tapes
	(1) 2,000 ft (AGL) (2) 2,000 ft (AGL) (3) Balloon Launching Station, Mildura, Victoria, Australia (4) 2,000 ft (AGL) (5) Science Research Council, England				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
(1)	6.0	773.0	Navigational satellite experiment	Tethered system
(2)	6.0	773.0	Navigational satellite experiment	Tethered system
56.4	3.5	396.0	First flight of Acoustic Echo Sounder (Radar) Sounder Xmitted 0.2 sec, 1400CPS Audio Pulses, every 4 seconds from exponential and parabolic dish, pointing vertically down	Successful flight
(4)	6.0	773.0	Navigational satellite experiment	Tethered system
8.2	9.15	1231.0	Far infrared observations of astronomical sources using a 40 cm aperture, stabilized telescope and liquid helium cooled bolometer	Successful flight
--	--	1155.0	An x-ray astronomy experiment to observe the spectrum and temporal variations of Cygnus X-3	Balloon failure

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
August 30	Palestine, Texas	NASA/ GSFC	Axel Briskin/ Dr. E. Boldt (Goddard Space Flight Center)	NCAR	11.62 million; .5 mil; .8 mil cap; 300 lb. load tapes
Sept. 6	Palestine, Texas	S.R.C. England (1)	Dr. R. Jennings (Univ. College London)	NCAR	3.100 million; 1.2 mil; 300 lb. load tapes
Sept. 9	Palestine, Texas	NASA	Dr. K. Greisen (Cornell Univ.)	NCAR	20.80 million; .8 mil; 2 x 0.9 mil caps; 400 lb. load tapes
Sept. 10	Palestine, Texas	S.R.C. England (1)	Dr. R. Jennings (Univ. College London)	NCAR	2.000 million; 1.0 mil; 300 lb. load tapes
Sept. 11	Holloman AFB	AFCRL	Mr. Korn (AFCRL)	AFCRL	0.711 million; 1.5 mil; double wall
Sept. 12	Palestine, Texas	N.S.F.	Dr. Allen Zych (Case Western Reserve Univ.)	NCAR	11.62 million; .7 mil; 1.2 mil cap; 300 lb. load tapes
Sept. 12	Ft. Wainwright, Alaska	AFCRL	Dr. Murcray (Univ. of Denver)	AFCRL	2.940 million; 1.5 mil;
Sept. 16	Ft. Wainwright, Alaska	AFCRL	Dr. Murcray (Univ. of Denver)	AFCRL	2.940 million; 1.5 mil
	(1) Science Research Council, England				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
3.10	8.07	1155.0	An x-ray astronomy experiment to observe the spectrum and temporal variations of Cygnus X-3	Successful flight
--	--	1286.0	Far infrared observations of astronomical sources using a 40 cm aperture, stabilized telescope and liquid helium cooled bolometer	Balloon failure
4.5	11.61	4538.0	Large area (100 inch diameter) gas-Cherenkov telescope to search for high energy gamma rays from known x-ray sources in the Cygnus region of the sky	Successful flight
11.0	10.3	1306.0	Far infrared observations of astronomical sources using a 40 cm aperture, stabilized telescope and liquid helium cooled bolometer	Successful flight
72.3	2.0	3150.0	Powered balloon component test	Successful flight
6.0	8.6	3120.0	Observations of high energy neutrons that originate in the atmosphere or may be produced at the sun	Successful flight
13.5	6.0	2058.0	Infrared atmospheric emission study	Successful flight
14.8	6.0	2055.0	Infrared atmospheric emission study	Successful flight

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Sept. 16	Holloman AFB	AFCRL	Mr. Korn (AFCRL)	AFCRL	0.711 million; 1.5 mil; double wall
Sept. 18	Palestine, Texas	S.R.C. England (1)	Dr. A. Boksenberg (Univ. College London) Dr. B. Bates (Queens College, Belfast)	NCAR	15.00 million; .5 mil; 2 x 0.5 mil caps; 200 lb load tapes
Sept. 18	Holloman AFB	ASL	Mr. Ballard (ASL)	AFCRL	37.740 million; 0.45 mil
Sept. 20	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
Sept. 22	Palestine, Texas	S.R.C. England (1)	Dr. D. Ramsden (Univ. of Southampton)	NCAR	3.000 million; .75 mil
Sept. 22	Ft. Wainwright, Alaska	AFCRL	T. Condron (North American)	AFCRL	2.940 million; 1.5 mil
Sept. 25	Ft. Wainwright, Alaska	AFCRL	T. Condron (North American)	AFCRL	2.940 million; 1.5 mil
Sept. 25	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
Sept. 27	Palestine, Texas	NASA	Dr. C. Waddington (Univ. of Minnesota)	NCAR	15.50 million; .6 mil
	(1) Science Research Council, England (2) 5,000 ft (AGL) (3) 5,000 ft (AGL)				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
64.2	6.0	3839.0	Powered balloon component test	Successful flight
2.6	10.1	1464.0	To make high resolution ultraviolet interstellar and stellar observations from a stabilized balloon-borne platform primarily of the important interstellar lines of MG II and MG I near 2800 Å and 2850 Å with a spectral resolution of 0.1 Å in various regions of the sky	Successful flight
0.96	6.0	650.0	Stratospheric composition	Successful flight
(2)	6.0	773.0	Navigational satellite experiment	Tethered system
8.0	8.0	1026.0	High resolution ultraviolet spectograph	Successful flight
15.5	4.0	2433.0	Infrared atmospheric emission study	Successful flight
15.9	2.0	2460.0	Infrared atmospheric emission study	Successful flight
(3)	5.0	773.0	Navigational satellite experiment	Tethered system
--	--	1815.0	High energy electron telescope	Balloon failure

Date (1972)	Location	Sponsor	Investigator	Flight operation conducted by	Balloon specs (volume in cu ft; polyethylene unless specified)
Sept. 27	Palestine, Texas	ONR	Dr. T.J. Pepin (Univ. of Wyoming)	NCAR	0.071 million; .5 mil
Sept. 27	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
Sept. 28	Palestine, Texas	S.R.C. England (2)	Dr. R. Jennings (Univ. College London)	NCAR	2.000 million; 1.0 mil
Sept. 28	Palestine, Texas	NASA	Dr. P. Meyer/ Dr. D. Muller (Univ. of Chicago)	NCAR	20.80 million; .8 mil
Sept. 28	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
Sept. 29	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
Sept. 30	Palestine, Texas	NASA	Dr. L. Smith (Univ. of California, Berkeley)	NCAR	20.80 million; .8 mil; valve on top of balloon
Sept. 30	Holloman AFB	SAMSO	Capt. Jackson (AFCRL)	AFCRL	0.045 million; cotton and neoprene
	(1) 5,000 ft (AGL) (2) Science Research Council, England (3) 5,000 ft (AGL) (4) 5,000 ft (AGL) (5) 5,000 ft (AGL)				

Pressure float altitude (mb)	Flight duration (hr)	Payload (lb)	Experiment	Remarks
20.0	2.7	25.5	Global monitoring of of stratosphere H ₂ O vapor measurements	Successful flight
(1)	3.0	773.0	Navigational satellite experiment	Tethered system
13.3	13.5	1470.0	Infrared astronomical at wavelengths beyond 20 UM	Successful flight
5.7	16.0	4547.0	Measurement of cosmic ray electron flux and energy spectrum	Successful flight
(3)	5.0	773.0	Navigational satellite experiment	Tethered system
(4)	4.0	773.0	Navigational satellite experiment	Tethered system
5.2	13.2	4901.0	Search for anti-nuclei in primary cosmic rays	Successful flight
(5)	4.0	773.0	Navigational satellite experiment	Tethered system